
***Michigan Environmental Science Board
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***Prepared by the
Michigan Environmental Science Board***

**MICHIGAN ENVIRONMENTAL SCIENCE BOARD
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JULY 2001

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PREFACE

Michigan Environmental Science Board

The Michigan Environmental Science Board (MESB) was created by Governor John Engler by Executive Order 1992-19 on August 6, 1992. The MESB is charged with advising the Governor, the Natural Resources Commission, the Michigan Department of Natural Resources and other state agencies, as directed by the Governor, on matters affecting the protection and management of Michigan's environment and natural resources. The MESB consists of nine members and an executive director, appointed by the Governor, who have expertise in one or more of the following areas: engineering, ecological sciences, economics, chemistry, physics, biological sciences, human medicine, statistics, risk assessment, geology, and other disciplines as necessary. Upon the request of the Governor to review a particular issue, a panel, consisting of MESB members with relevant expertise, is convened to evaluate and provide recommendations on the issue. The MESB is neither a state policy body nor an advocate for or against any particular environmental or public health concern.

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Michigan Environmental Science Board

Reprint Reference Library Listing

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Introduction

The Michigan Environmental Science Board (MESB) was created August 6, 1992, as an independent autonomous agency through Executive Order 1992-19. The MESB is charged with providing the Governor of Michigan, and state agencies at the Governor's request, with sound scientific and technical expertise on matters relating to environmental protection and natural resources management. The MESB is neither a state policy body nor an advocate for or against any particular environmental or public health concern.

The MESB consists of an executive director and nine individuals, appointed by the Governor, who have expertise in one or more of the following areas: engineering, ecological sciences, chemistry, physics, toxicology, biological sciences, human medicine, statistics, risk management, geology, economics and other disciplines as necessary. Upon receipt of a request from the Governor to investigate a given topic or issue, a panel is convened of MESB members with appropriate expertise and outside guest scientists as needed.

Since its inception in 1992, the MESB has (1) investigated the human health and environmental impacts of mercury, chlorine, and lead contaminants; (2) evaluated the efficacy and impact of an aquatic herbicide, the use of indoor air inhalation generic cleanup criteria at sites of environmental contamination; the risk of cancer among firefighters, and the human health impact of low-level hydrogen sulfide exposure; (3) determined the causes of massive weed growth and elevated bacteria populations in Lake St. Clair; and (4) evaluated Michigan's low-level radioactive waste isolation facility siting criteria, Michigan's fish advisory program, the impact of directional drilling on the Great Lakes, the U.S. Environmental Protection Agency's particulate matter and ozone regulations, and the Michigan Department of Environmental Quality's environmental standards as they relate to children's health. In addition, the MESB has evaluated the efficacy of a proposed uniform fish advisory for use with the Great Lakes and the scientific soundness of a list of proposed environmental indicators to be used to assess the overall state of the natural environment in Michigan. Copies of all MESB reports are available free of charge.

As a result of the various MESB investigations and reports (Table 1), a substantial collection of resource publications and documents has been developed in the MESB reprint library. The purpose of this report is to provide a listing of the various published and unpublished resource materials that have been used to prepare the MESB reports, and to make these available for future research. The MESB resource documents are categorized by MESB report and then author and also by just author in this report. Copies of the listed documents are available upon request. Depending on the length of the publication requested, there may be a cost associated with the copying of the document.

Table 1. Michigan Environmental Science Board Reports 1993 – 2000.

*Recommended Environmental Indicators Program for the State of Michigan, **July 2001***

*Evaluation of the Michigan Department of Environmental Quality's Generic Groundwater and Soil Volatilization to Indoor Air Inhalation Criteria, **April 2001***

*Health Effects of Low-Level Hydrogen Sulfide in Ambient Air, **August 2000***

*Analysis of the Michigan Department of Environmental Quality's Administered Environmental Standards to Protect Children's Health, **February 2000***

*Evaluation of the Use of Sonar® in Michigan, **October 1999***

*Evaluation of the Risk of Cancer among Fire Fighters, **June 1999***

*Evaluation of Michigan's Proposed 1998 Fish Advisory Program, **January 1998***

*Evaluation of Directional Drilling under the Great Lakes, **October 1997***

*Evaluation of Air Quality and Human Health Issues involving Particulate Matter and Ozone, **August 1997***

*(Impact of New PCB Information on 1995 MESB-Council of Great Lakes Governors Special Fish Advisory Report), Correspondence to Governor John Engler, **January 21, 1997***

*Evaluation of Michigan's Low-Level Radioactive Waste Isolation Facility Siting Criteria, **June 1996**.*

*Critical Review of a Proposed Uniform Great Lakes Fish Advisory Protocol, **September 1995***

*The Impacts of Lead in Michigan, **March 1995***

*(Report on Bacteriological and Macrophyte Contamination of Lake St. Clair), Correspondence to Governor John Engler, **August 26, 1994***

*Impacts of Chlorine Use on Environmental and Public Health, **June 1994***

*Mercury in Michigan's Environment: Environmental and Human Health Concerns, **April 1993***

Requests for documents should include the name and author of the publication and the MESB identification number (bolded entry at the end of each document citation). Requests for documents should be sent to:

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**Michigan Environmental Science Board
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by Report**

MESB 1993 Mercury Report

Fischer, L.J., J.W. Bulkley, R.J. Cook, R.Y. Demers, D.T. Long, R.H. Olsen, B.J. Premo, E.O. van Ravenswaay, G.T. Wolff and K.G. Harrison. 1993. ***Mercury in Michigan's Environment: Environmental and Human Health Concerns, April 1993***. Michigan Environmental Science Board, Lansing. xiii + 144p.

- , 1992. International Conference on Mercury as a Global Pollutant, May 31 - June 4, 1992 [Abstracts Only]. Electric Power Research Institute, U.S. Environmental Protection Agency, Vattenfall and Environmental Canada: AES, Monterey, California. 133p. **MESB 10/21/92**
- Aastrup, M., J. Johnson, E. Bringmark, P. Bringmark and A. Iverfeldt. 1991. Occurrence and transport of mercury within a small catchment area. *Water, Air and Soil Pollution*, 56:155-167. **MESB 3/24/93**
- Ammerman, L. and L. Van Maele. 1990. Removing Household Batteries from the Waste Stream: Problems and Opportunities, January 1990. Legislative Service Bureau, Lansing, Michigan. 9p. **MESB 12/9/92**
- Balfour, R.L. 1992. The declining use of mercury in batteries. IN International Conference on Mercury as a Global Pollutant, May 31 - June 4, 1992 [Abstracts Only]. Electric Power Research Institute, U.S. Environmental Protection Agency, Vattenfall and Environmental Canada: AES, Monterey, California. 133p. **MESB 10/21/92**
- Bornhausen, M., H.R. Musch, and H. Greim. 1980. Operant behavior performance changes in rats after prenatal methylmercury exposure. *Toxicol. and Appl. Pharmacology*, 56:305-310. **MESB 3/26/93**
- Brigham, M.E. and P.L. Brezonik. 1992. Mercury cycling in lakes: development of analytical capabilities for ultra-trace mercury measurements, pp 2-1 - 2-15. IN *Mercury in the St. Louis River, Mississippi River, Crane Lake and Sand Point Lake: Cycling, Distribution and Sources*, April 1992. Report to the Legislative Commission on Minnesota Resources. Minnesota Pollution Control Agency, St Paul, Minnesota. **MESB 3/19/93**
- Bulkley, J.W. [1993]. Draft Response to Directions from Governor Engler Dated August 6, 1992, January 26, 1993. Michigan Environmental Science Board, Lansing. 3p. **MESB 1/27/93**
- Burton, B.K. [1992]. Comments on the August 1992 Task Force on Mercury Emissions Standards Setting, Preliminary Report, Volume II, Environmental and Health Issues. Correspondence to the New Jersey Department of Environmental Protection and Energy, September 11, 1992. Integrated Waste Services Association, Washington, D.C. 7p. **MESB 1/27/93**
- Cairns, J. and R.M. Harrison (eds.). (In press). Statement from the work session on chemically induced alterations in sexual development: the wildlife/human connection. IN *Chemically Induced Alterations in Sexual Development: The Wildlife/Human Connection*. Elsevier Applied Pub., Ltd., London. **MESB 1/27/93**
- Center for Disease Control. 1991. Acute and chronic poisoning from residential exposures to elemental mercury-Michigan 1989-1990. *Morbidity and Mortality Weekly Report*, 40(23):393-395. **MESB 2/8/93**
- Center for Disease Control. 1990. Mercury exposure from interior latex paint-Michigan. *Morbidity and Mortality Weekly Report*, 39(8):125-126. **MESB 2/8/93**
- Center for Disease Control. 1989. Elemental mercury vapor poisoning-North Carolina. *Morbidity and Mortality Weekly Report*, 38(45):770-772 & 777. **MESB 2/8/93**

- Clark, T.L. [1992]. Current Research On Mercury In the Atmosphere. December 14, 1992. Paper presented to the Michigan Environmental Science Board. U.S. Environmental Protection Agency, Research Triangle Park, North Carolina. 4p. **MESB Minutes 12/14/92**
- Clarkson, T.W. [1991]. [Comments on MDNR draft mercury criteria document]. Correspondence to Robert Sills, Michigan Department of Natural Resources, August 29, 1991. University of Rochester, Rochester, New York. 2p. **MESB 4/8/93**
- Clarkson, T.W. 1990. Human health risks from methylmercury in fish. *Environmental Toxicology and Chemistry*, 9:957-961. **MESB 3/26/93**
- Clement International Corporation. 1992. Draft Toxicological Profile for Mercury, October 1992. Contract No. 205-88-0608, Agency for Toxic Substance and Disease Registry, U.S. Dept. of Health and Human Serv., Atlanta, Georgia. 230p. **MESB 12/21/92**
- Clement Risk Assessment Division. 1992. Understanding the Sources, Trends and Impacts of Mercury in the Environment, November 17, 1992. Prepared for Integrated Waste Services Association, Washington, D.C. 42p. **MESB 2/4/93**
- Cole, H.S., A.L. Hitchcock, and R. Collins. 1992. Mercury Warning: The Fish You Catch May Be Unsafe to Eat, A Study of Mercury Contamination in the United States, August, 1992. Clean Water Fund, Clean Water Action, Washington, D.C. 61p. **MESB 12/15/92**
- Compeau, G.C. and R. Bartha. 1985. Sulfate-reducing bacteria: principal methylators of mercury in anoxic estuarine sediment. *Appl. Environ. Microbiol.*, 50:498-502. **MESB 3/15/93**
- Cook, R.J. [1987]. Solid and Hazardous Waste Incineration, An Analysis for Citizens and Policymakers, Pre-publication Draft. Kalamazoo College, Kalamazoo, Michigan. 76p. **MESB 2/22/93**
- Cox, C. [1993]. [Four graphs showing trends in mercury contamination in Lake St. Clair sport fish, 1970-1991]. Correspondence to John Hesse, Michigan Department of Public Health, January 6, 1993. Ministry of the Environment, Toronto, Canada. 6p. **MESB 1/27/93**
- Cox, C., T.W. Clarkson, D.O. Marsh, L. Amin-Zaki, S. Tikriti and G. Myers. 1989. Dose-response analysis of infants prenatally exposed to methyl mercury: an application of a single compartment model to single-strand hair analysis. *Environmental Research*, 49:318-332. **MESB 3/19/93**
- Delfino, J.J. 1992. Assessment of Mercury Concentrations in Soils and Sediment Samples from the Everglades Wetland System and Implications of Natural and Anthropogenic Factors on Accumulations of Mercury in Wetlands, October 6, 1992. Quarterly Progress Report to the Florida Department of Environmental Regulation, Tallahassee. 70p. **MESB 1/12/93**
- Denison, R. [1993]. Data on Heavy Metal Concentrations in Actual Field Leachate from MSW Incinerator Ash Monofills - Updated from August 24, 1992 Version. Memorandum to Interested Parties, January 8, 1993. Environmental Defense Fund, Washington, D.C. 10p. **MESB 1/29/93**
- D'Itri, F.M. 1991. Mercury contamination-what we have learned since Minamata. *Environ. Monitoring and Assessment*, 19:165-182. **MESB 3/26/93**
- Dunaskiss, M. [1992]. Senate Bill 795. Presentation to the Michigan Environmental Science Board, September 14, 1992. Lansing, Michigan. 2p. **MESB Minutes 9/11/92**
- East, K. [1992]. Mercury Levels in Lakes in Oakland County. Memorandum to Senator Mat Dunaskiss. Legislative Service Bureau, Lansing, Michigan. 12p. **MESB Minutes 9/11/91**
- Elsner, J., B. Hodel, K.E. Suter, D. Oelke, B. Ulbrich, G. Schreiner, V. Cuomo, R. Cagiano, L.E. Rosengren, J.E. Karlsson and K.G. Haglid. 1988. Investigations of different approaches in behavioral teratology and correlation with neurochemical parameters. *Neurotoxicol. and Teratology*, 10:155-167. **MESB 3/26/93**
- Ferraro, F. [1992]. Letter to New Jersey Department of Environmental Protection and Energy, September 10, 1992. Wheelabrator Environmental Systems, Inc., Hampton, New Hampshire. 11p. **MESB 10/13/92**
- Fischer, L.J. [1993]. Discussion Document, Recommendations on Mercury in Michigan's Environment, January 26, 1993. Michigan Environmental Science Board, Lansing. 5p. **MESB 1/27/93**
- Fisher L. and Demers, R. [1992]. Methylmercury Exposure Conclusions Relative to Human Health, December 14, 1992. Michigan Environmental Science Board, Lansing. 7p. **MESB Minutes 12/14/92**
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- Harrison, K.G. (ed.). 1992b. Michigan Environmental Science Board Mercury Panel Meeting Minutes, Friday, October 16, 1992. Michigan Environmental Science Board, Lansing. 18p. **MESB Minutes 10/16/92**
- Harrison, K.G. (ed.). 1992c. Michigan Environmental Science Board Meeting Minutes, Friday, September 11, 1992. Michigan Environmental Science Board, Lansing. 5p. **MESB Minutes 9/11/92**
- Hesse, J.L. [1992]. Input to the Board's Review of the Mercury Issue. Correspondence to the Michigan Environmental Science Board, December 16, 1992. Michigan Department of Public Health, Lansing. 17p. **MESB 1/12/93**
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- Hurley, J.P., C.J. Watras and N.S. Bloom. (In press). Mercury cycling in a northern Wisconsin seepage lake; the role of particulate matter in vertical transport. 9p. **MESB 3/19/93**
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- Jones, K.H. [1993a]. A Review of the Preliminary Report: Volume 2, Environmental and Health Issues by the Task Force on Mercury Emissions Standard Setting of the New Jersey Department of Environmental Protection and Energy (September 1992), January 1993. Zephyr Consulting, Seattle, Washington. 20p. **MESB 1/12/93**
- Jones, K.H. [1993b]. Comparisons of Wet Deposition Measurements Versus Modeled Estimates, Warren Co. WTE, January 1993. Zephyr Consulting, Seattle, Washington. 8p. **MESB 1/12/93**
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- Long, D.T. [1993]. Preliminary Report on Mercury in Sediments of Michigan for Mercury Panel of the Michigan Environmental Sciences Board, January 26, 1993. Michigan Environmental Science Board, Lansing. 14p. **MESB 1/27/93**
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 Iosco County Maps; - land cover - NFI, oil & gas, dune - soils.
 Arenac County Maps; - land cover - NFI, oil & gas, dune - soils.
 Bay County Maps; - land cover - NFI, oil & gas, dune - soils.
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